	ii Department of Health - Safe Drinking Water Brai ed Total Coliform Rule - Level 2 Assessment	nch RTCR-Level 2
PWS ID #:	PWS Name:	City:
Lead Assessor, oth	er participants in the assessment:	
Person(s) represen	iting the PWS:	
Trigger Date:		
Date of Site Visit:	Date Assessment con	mpleted:
Level 2 Trigger:	E. coli MCL violation	
	2nd Level 1 trigger in 12 months Date of la	ast Level 1 trigger:
	Sample Pt ID/Location	Date Total coliform
List all positive		Collected E. coli
samples and all	1 TC	Total coli.
repeat samples	Chlorine:mg/L	E. coli
(in chronological	2 TC	Total coli.
order)	Chlorine: mg/L	E. coli
,	3 TC	Total coli.
	Chlorine: mg/L	E. coli
	4 TC	Total coli.
	Chlorine: mg/L	E. coli
	5 TC	Total coli.
	Chlorine: mg/L	E. coli
	6 TC	Total coli.
	Chlorine: mg/L	E. coli
	7 TC	Total coli.
	Chlorine: mg/L	E. coli
	8 TC	Total coli.
	Chlorine: mg/L	E. coli
X 1.0 Sample si X 2.0 Sampling X 3.0 Operation X 4.0 Distribution	protocol followed al, Environmental or Security Events on System 1 X 11.0	Source - Surface Water Supply Source - Spring Source - Purchased Water Quality 1
5.0 Storage Fa		Other Issues Identified
X 6.0 Treatment		Summary of Incident 1
7.0 Source - W	/ell	

1.0	Sample Site Evaluation Complete this for	m for	eacl	n po	sitive coliform sample location (routine
	or repeat). Sample Pt. no.: TC Lo	ocatio	n:		
	Item	Yes	No	N/A	Issue and/or Description
1.1	What is the regular use of the sample site (handwashing, dedicated sample tap, etc.)?				
1.2	Describe the location and condition. Is the tap exposed to the rain?				
1.3	Have there been any plumbing breaks or failure? If yes, when?				
1.4	Have there been any plumbing changes or construction?				
1.5	List any identified cross-connections after the service connection or in premise plumbing.				
1.6	Were there any low pressure events in the premise plumbing?				
1.7	Were all backflow prevention devices present, operational, tested annually by a certified teste & maintained?				
1.8	Other comments on sample site?				
Photo o	of sample site No	otes			

2.0 Sampling protocol followed		Per	son	who	collected samples:
	Item	Yes	No	N/A	Issue and/or Description
2.1	Were samples collected according to an approved RTCR sample site plan?				
2.2	Please describe the sampling procedures.				
2.3	Aerator, screen, hose or other attachment present during sampling?				
2.4	Were proper storage and transport procedures used?				
2.5	Was the chain-of-custody form properly completed?				
2.6	Other comments on sample collection procedures.				
Notes					

3.0	Operational, Environmental, or Security Events. Have any of the following occurred at relevant facilities prior to the collection of positive total coliform samples?				
	Item				Issue and/or Description
3.1	Itom	100	140	IN//	issue ana/or besorption
0.1	Was there a failure of chlorination equipment?				
3.2	Have there been events indicating potential for				
0.2	introducing contamination (e.g. main breaks,				
	low pressure, loss of disinfection, high				
	turbidity)?				
3.3	Were there any operational or maintenance				
	activities that could have introduced total				
	coliforms or <i>E. coli</i> , such as pipeline				
	replacement?				
3.4	Has there been any vandalism and/or				
	unauthorized access to facilities?				
3.5	Have there been a fire fighting event, flushing				
	operation, sheared hydrant, etc?				
3.6	Have there been any other events that could				
	have caused coliform positives?				
3.7	Has there recently been heavy rainfall/flooding?				
3.8	Any inactive sources or new sources recently				
	introduced into the system?				
Notes					

4.0	Distribution System			
	Item	No	N/A	Issue and/or Description
4.1	Are there any unprotected cross-connections to nonpotable water (for example: fire flow system)?			
4.2	Any issues found in any booster pump stations?			
4.3	Air relief valves: Is the valve vault subject to flooding? Is the vent not pointing downwards or not screened?			
4.4	Are backflow prevention devices at high risk sites present, operational, and maintained & inspected within the last 12 months by a certified tester?			
4.5	Have there been any water main repairs or additions? If yes, when and what was the repair or addtion?			
4.6	Have there been any water main breaks? If yes, when?			
4.7	Was there any scheduled flushing of the distribution system? If yes, when?			
4.8	Is there any evidence of intentional contamination in the distribution system?			
4.9	Other comments on the distribution system.			
Notes				

5.0	Storage Facilities Complete one form for each storage facility.				
	Storage Tank Name:				
	Item	Yes	No	N/A	Issue and/or Description
5.1	Is unauthorized access possible?				
5.2	Is the overflow outlet outfitted with a flapper valve, duckbill check valve or insect screen?				
5.3	Is there improper sealing of the access hatch or other openings, or improper screening of the level indicator opening (for example, it does not prevent entrance of rainwater & insects).				
5.4	Could the physical condition of the tank be a source of contamination (including but not limited to: biofilm, oil sheen or particulates on the water surface, or insects or geckoes visible in the tank)?				
5.5	Is the vent not turned down or properly screened, or does the termination point not have an approved air gap?				
5.6	Is the overflow line outlet submerged?				
5.7	Has recent maintenance work been done on the tank?				
5.8	Were there any observed leaks?				
5.9	Are there separate inlet & outlet lines?				
5.10	What is the measured chlorine residual (total/free) of the water exiting the tank today?				
5.11	Was there observed physical deterioration of the tank?				
5.12	Is there any evidence of intentional contamination at the storage tank?				
5.13	PRESSURE TANK (if applicable) - Is the pressure tank maintaining an appropriate minimum pressure?				
5.14	List other comments on the storage tank.				
Notes					

6.0	Treatment Process Complete one form for e Treatment process description:	each	trea	atme	ent process.
	Item	Yes	No	N/A	Issue and/or Description
6.1	Have there been any interruptions of treatment (lapses in disinfection, chemical feed/power loss)? If yes, which process and for how long?				
6.2	How frequently is chorine residual measured?				
6.3	Is the treatment device operational and maintained?				
6.4	Has there been any recent installation or repair of treatment equipment?				
6.5	Were there any recent changes in the treatment process? If yes, when, and what was the change?				
6.6	What is the free chlorine residual measured immediately downstream from the point of application today?				
6.7	SURFACE WATER-Was there a failure to meet the minimum CT requirements?				
6.8	SURFACE WATER-Did a review of filter turbidity profiles reveal any anomalies?				
6.9	SURFACE WATER-Were the flow rates above the rated capacity?				
6.10	List other comments on the treatment/disinfection system.				
Notes					

7.0	Source - Well Complete one form for each Well name:	n we	II		
	Item	Voc	No	NI/A	Issue and/or Description
7.1	Is unathorized access possible?	163	NO	IN/A	issue and/or Description
7.2	Is the sanitary seal intact (e.g. are there openings through the pump baseplate)?				
7.3	Are the vents not facing downward or not screened?				
7.4	Do the vent and pump-to-waste terminate in an approved air gap? Is there a flapper valve or duckbill check on the pump-to-waste outlet?				
7.5	Are there any unprotected cross-connections at the wellhead (including hose bibbs without vacuum breakers)?				
7.6	Is there any evidence of standing water at the wellhead?				
7.7	Have there been any sewer spills, source water spills, or other disturbances?				

8.0	Source - Surface Water Supply Complete one form for each source				orm for each source
	Item	Yes	No	N/A	Issue and/or Description
8.1	Is unathorized access possible?				
8.2	Have there been any sewer spills, source water spills, or other disturbances?				
8.3	Have there been any algal blooms?				
8.4	Describe any changes to the surface water (e.g higher color, turbidity, organics, etc.)				
8.5	Has a change in surface water souces occurred?				
8.6	List other comments on the surface water source.				
Notes					

9.0	Source - Spring Complete one form for each spring source				
	Spring source:				
	Item	Yes	No	N/A	Issue and/or Description
9.1	Is unathorized access possible?				
9.2	What is the condition of the spring source? Is there any indication of surface water influence?				
9.3	What is the condition of the spring box?				
9.4	List other comments on the spring source.				
Notes					

10.0	Source - Purchased	Source - Purchased Complete one form for each source				
	Item		Yes	No	N/A	Issue and/or Description
10.1	Is unathorized access poss	ible?				
10.2	Have you discussed whethe supplier had any issues with system?					
10.3	What is the condition of the	interconnection?				
10.4	List other comments on the or interconnection.	purchased source				
Notes						

11.0	Water Quality Review:	
Additio	onal water quality data was reviewed or	collected as part of this assessment and an assessment
	e Ground Water Rule. The data is attach	·
\Box	oliform bacteria	Heterotrophic Plate count
	hlorine residual	Other
		├──
	urbidity	Other Other
pl		
	Discuss any issues identified	
40.0	Additional Occurrents on Issues	Identificate Operators if processors
12.0	Additional Comments or Issues	Identified: Complete if necessary
42.0	Common of Incident valeted to	this Lavel 2 twisters
13.0	Summary of Incident related to	
	Include the date that a clean round of	
	collected prior to assessment submitta	al).
Caus	so of Coliform Positive Samples: E	Based on the results of your investigation & any other available
		se(s) of the total coliform and E. coli positive samples? (Do not leave
blank.		30(3) of the total comoth and E. compositive samples: (Do not leave
	-,	
IN	o sanitary defects were identified during	the course of this assessment.

Sanitary Defects and Corrective Actions								
-List all sanitary defects and corrective actions performed prior to submitting this assessment.								
-Lis	t <u>all sanitary</u>	defects and Pla	nned correct	tive actions	with proposed o	completion dates.		
		Caritany Defect			Corrective	۸ - 4:	Date	Planned Com-
\vdash		Sanitary Defect			Corrective A	Action	Completed	pletion Date
2								
3								
\vdash								
4								
5								
		titi i tila kan		V I Ala a		(C11 10 £ 11		
Note that once this schedule has been approved by the Hawaii Department of Health, failure to meet this schedule subjects the PWS to a Treatment Technique violation, which would require public notification.								
SCH	edule subjec	ts the PWS to a	Treatment	l echnique	VIOIATION, WILICITY	would require public i	notification.	
Certification								
Print Name:					Signature:	1		
Title:					Date:			
Email:					Phone No.:			
	<u>411.</u>				1 110110 11011			
PWS Owner or PWS Responsible party must also complete the following certification if this assessment includes a								
corr	rective action	n schedule.	-					
Prin	nt Name:				Signature:			
Title	э:				Date:			
Ema	ail:				Phone No.:			
Hav	vaii Departn	nent of Health,	Safe Drinki	ng Water E	Branch Review			Yes No
Has assessment been successfully completed?								
Likely reason for bacterial occurrence has been found.								
PWS has corrected the problems.								
Assessment is deemed			Acceptable		Deficient			
		Approve	ed	Denied	Approved with o	changes (att	ached)	
Name of DOH SDWB Reviewer: Date:								
Comments:								